फाइल नं0-71-1001/1703/2019

13/2023/।/272385/2023

प्रेषक,

दुर्गा शक्ति नागपाल,
विशेष सचिव,
उ0प्र0 शासन।

सेवा में,

महानिदेशक,
चिकित्सा शिक्षा एंव प्रशिक्षण,
उ0प्र0 लखनऊ।

चिकित्सा शिक्षा अनुभाग-1 लखनऊ: दिनांक 09 फरवरी, 2023

विषय:-राजकीय मेडिकल कालेजों/ स्वशासी राज्य चिकित्सा महाविद्यालय/संस्थानों में बर्न यूनिट हेतु उपकरणों की तकनीकी विशिष्टियों के निर्धारण के सम्बन्ध में।

महोदया,

उपर्युक्त विषयक अपने पत्र संख्या-एम0ई0/पर्चेज/2022-23/392, दिनांक 22.11.2022 का कृपया संदर्भ ग्रहण करें, जिसके द्वारा राजकीय मेडिकल कालेज, मेरठ में बर्न यूनिट हेतु उपकरणों की तकनीकी विशिष्टियों को अनुमोदित किये जाने का अनुरोध किया गया है।

2- इस सम्बन्ध में मुझे यह कहने का निदेश हुआ है कि राजकीय मेडिकल कालेजों/स्वशासी राज्य चिकित्सा महाविद्यालयों/संस्थानों में बर्न यूनिट की स्थापना हेतु उपकरणों के निर्धारित किये गये स्पेसिफिकेशन (संलग्न के अनुसार) को निम्नलिखित शर्तो/प्रतिबन्धों के अधीन अनुमोदित किया जाता है:-

1. मेडिकल कालेज/स्वशासी राज्य चिकित्सा महाविद्यालय/संस्थानों में बर्न यूनिट हेतु उपकरणों के क्रय/स्थापना हेतु निर्धारित तकनीकी विशिष्टियॉ 03 वर्ष तक वैध रहेगी। उक्त विशिष्टियॉ के आधार पर वर्ष 2022-23, 2023-24 एंव 2024-25 में उपकरणों का क्रय किया जाना सुनिश्चित किया जाए।
2. उक्त तकनीकी विशिष्टियों की निष्पक्षता का दायित्व महानिदेशक, चि0शि0/तकनीकी विशिष्टियों के निर्धारण हेतु गठित समिति का होगा।
3. तकनीकी विशिष्टियों का परिचालन महानिदेशक, चि0शि0 एंव प्रशि0 द्वारा किया जायेगा।

3- कृपया उपर्युक्तानुसार दिशा-निर्देशों का कड़ाई से अनुपालन सुनिश्चित कराने का कष्ट करें।

संलग्नक-यथोक्त।

भवदीया,

(दुर्गा शक्ति नागपाल)
विशेष सचिव।

संख्या/तद्दिनांक, उपरोक्तानुसार।

प्रतिलिपि निम्नलिखित को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित:-

1. कुलपति, किंग जार्ज चिकित्सा विश्वविद्यालय, लखनऊ0एस0एम0यू0पी0यू/, सैफई।
2. समस्त प्रधानाचार्य, राजकीय मेडिकल कालेज, उ0प्र0।

1- यह शासनादेश इलेक्ट्रानिकली जारी किया गया है, अत: इस पर हस्ताक्षर की आवश्यकता नहीं है ।

2- इस शासनादेश की प्रमाणिकता वेब साइट http://shasanadesh.up.nic.in से सत्यापित की जा सकती है ।

http://shasanadesh.up.nic.in

3. समस्त प्रधानाचार्य, स्वशासी राज्य चिकित्सा महाविद्यालय, उ0प्र0।
4. निदेशक, डाराम मनोहर लोहिया 0, आयुर्विज्ञान संस्थान, लखनऊ0आई0जी0पी0जी0एस/, लखनऊ0एस0एम0आई0जी/, ग्रेटर नोएडानोएडा। 0आई0टी0जी0एण्ड पी 0एच0पी0एस0एस/
5. निदेशक, हृदय रोग संस्थान कानपुर/जे 0के 0कैंसर संस्थान, कानपुर।
6. गार्ड फाइल।

आज्ञा से,

(एस0 पी0 सिंह),
अनु सचिव।

संलग्नक-

SPECIFICATIONS FOR 12 LEAD ECG MACHINE

1. Fully automatic, microprocessor-controlled, mains & battery operated
2. Built-in 8-inch or more color LCD/ LED monitor.
3. Built-in Ethernet port for data transfer.
4. Printout on an internal thermal printer.
5. Resting ECG software with 12 simultaneous leads
6. Preview of 12 lead ECG prior to the printout
7. ECG measurement software, incl. average complexes, measurement markers and a detailed measurement results table.
8. The unit should have advisory software for the placement of leads.
9. The unit should give a lead quality assessment as to whether the properly connected or improper connection.
10. The unit should have a Pacemaker detection facility.
11. The unit should have a sampling rate of at least 30,000 Hz
12. The unit should have a frequency range 0 Hz - 250 Hz
13. Unit Should be able to print the Right precordial lead with the notation.
14. Should be able to print left posterior leads.
15. The unit should have a high-resolution A4 size thermal printer.
16. Alphanumeric keyboard with rubber keys.
17. Rechargeable Battery backup for at least 5 hours and more.
18. Built-in Memory of 250 patients' ECG or more.
19. The unit should store at least 10 minutes or more continuous ECG recording.
20. Should have QT correction by Bazett, Fredericia, Framingham or Hodges

Accessories to be supplied with each machine:

1. 10 lead patient cable with banana plugs – 1 no.
2. extremity electrodes – 2 set
3. Compatible trolley – 1

Conditions for tender:

1- यह शासनादेश इलेक्ट्रानिकली जारी किया गया है, अत: इस पर हस्ताक्षर की आवश्यकता नहीं है ।
2- इस शासनादेश की प्रमाणिकता वेब साइट http://shasanadesh.up.nic.in से सत्यापित की जा सकती है ।

1. All accessories should be from the same Original Equipment Manufacturer for the main unit.
2. Instruments must be ISO certified and a copy should be enclosed. (The ISO Certificate must be issued by any organization accredited by the Bureau of Indian Standard or accredited by the international accrediting forum "IAF" (Certificate to be attached).
3. Should be USA FDA and/ or European CE be approved by 4 digits notified body.
4. Other necessary certifications if any required will be provided by the bidder for the smooth functioning of the machine.
5. Installation process should be performed by O.E.M trained service engineers/ service representatives on OEM letterhead or Service Report within 15 days of supply, with the mandatory provision of providing preventive services visit of OEM trained Service Engineer/ Service Representative quarterly per year till the completion of warranty period (i.e., 20 visits for the first 05 years) & further quarterly visits (04 visits/year) year till the completion of CMC period.
6. The equipment should have a Brand name/ Model Number embossed/etched on the equipment.
7. All the technical specifications in the compliance statement must be supported by Original Literature from the firm/ O.E.M with highlighting Numbering & flagging of all technical certificates.
8. Offered Equipment should have a strong Government Installation base.
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15. The bidder must comply with the General Financial Rules and their modifications if any issued by the Government of India- 2017.
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17. Principal (OEM) must authorize only one agent to be quoted in the bid otherwise multiple quotes through different agents in the same bid will be canceled.
18. The Bidder and its OEM both have to submit a notarized affidavit on the Indian Non-Judicial Stamp Paper of Rs.100/- that the bidder has not quoted the price higher than the current financial year and last financial year supplied to any government Institute/ Organization/ reputed Private Organization. OEM also has to submit that the price quoted by the bidder in the bid is on its behalf and the lowest in the current and last financial year in the country. Therefore, if at any stage it has been found that the supplier and its OEM have quoted lower rates than those quoted in this bid; the Institute (the purchaser) would be given the benefit of lower rates by the Supplier and any excess payment if any, will become immediately payable to the Institute (the purchaser). If such an affidavit is not submitted, the bid will be outrightly rejected. (Part of technical bid).
19. Guarantee / Warranty Period: Separate offers of Comprehensive Maintenance Contract (CMC on main equipment) and Annual Maintenance Contract (AMC on main equipment) for further 5 years after expiry of 5 years of warranty (i.e., 6 th, 7 th, 8 th, 9 th and 10 th years) in rupees only (and on basis of percentage of price) should be included in a financial bid in the absence of which the offer is liable to be rejected. Payment for CMC/AMC shall be made only after the expiry of the warranty of 5 years, in case the Institute (the purchaser) decides for availing of CMC/AMC services. Contract for CMC/AMC shall be decided on expiry of warranty but rates (not more than 5% inclusive of all taxes for 6 th to 10 th year) will be frozen at the price of an issued purchase order before the release of payment by the Institute (the purchaser). However, the Institute (the purchaser) may decide not to enter into any CMC/AMC contract without assigning any reason for the same, which shall be binding upon the bid.

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SPECIFICATIONS FOR 5 PARA BASIC MONITOR

1. Should have ECG, SpO2, NIBP, Respiration, and temperature monitoring facility.
2. Monitor must be upgradable to have Minimal Invasive Continuous Cardiac Output, micro-stream ETCO2, BIS, and GAS monitoring through interchangeable modules.
3. Should display at least 08 waveforms channels of selected parameters simultaneously.
4. Should have inbuilt continuous battery backup through a lithium-ion battery of a minimum of four hours or more.
5. Display: Color TFT display size of 10” or more.
6. Should have dual temperature monitoring either in Celsius or Fahrenheit.
7. Should have facility for displaying multi-screen configurations.
8. Should be able to store & display at least 240 hours of tabular & graphical trends of all parameters. Minimum 200 event recalls with 3 waveforms snapshots should be provided as standard. Should also have an option for full disclosure of waveforms for a minimum of 48 hours.
9. Should be suitable for monitoring adult & pediatric & neonate patients
10. The SpO_2 technology should be Nellcor/ Masimo SET/ Equivalent to monitor SpO2 so as to sense hypotension, shivering & motion.
11. Should have oscillometric Technology for measurement of NIBP with Auto, STAT, and Manual modes.
12. Should have different patient type selection.
13. Should have PPV (Pulse Pressure variation) as standard when connected to IBP.
14. The respiration rate should be calculated through the Impedance method.
15. Should be able to analyze arrhythmias & ST segment changes. Monitor ST-segment upgradable to monitor 12 lead ECG with ST-segment representation in easily readable graphical form.

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16. Should be compatible with HIS and should be HL7 compliant.
17. Monitor should have ESU & Defibrillation protection.
18. Should be able to give visual & audible alarms with three levels of volume adjustment.
19. Should have connectivity to Central station through Ethernet card or Wireless Connectivity. Manufacturer firms should have the same make system/ solution to upgrade the integration of these monitors with other ICU devices such as syringe pumps, ventilators, ABG machines, Heart & Lung machines, dialysis machines etc.
20. Monitor must have the facility to have the bed-to-bed overview through LAN without connecting to a central station.

Accessories with each monitor:

- 3 lead ECG cable x 01 no.
- Reusable Adult NIBP Cuff x 01 no.
- Reusable NIBP Hose pipe x 01 no.
- Reusable Adult SpO2 sensor x 01 no.
- Reusable Esophageal Temperature probe x 01 no.

Conditions for tender:

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19. Guarantee / Warranty Period: Separate offers of Comprehensive Maintenance Contract (CMC on main equipment) and Annual Maintenance Contract (AMC on main equipment) for further 5 years after expiry of 5 years of warranty (i.e., 6 th , 7 th , 8 th , 9 th and 10 th years) in rupees only (and on basis of percentage of price) should be included in a financial bid in the absence of which the offer is liable to be rejected. Payment for CMC/AMC shall be made only after the expiry of the warranty of 5 years, in case the Institute (the purchaser) decides for availing of CMC/AMC services. Contract for CMC/AMC shall be decided on expiry of warranty but rates (not more than 5% inclusive of all taxes for 6 th to 10 th year) will be frozen at the price of an issued purchase order before the release of payment by the Institute (the purchaser). However, the Institute (the purchaser) may decide not to enter into any CMC/AMC contract without assigning any reason for the same, which shall be binding upon the bid.

SPECIFICATIONS OF PORTABLE COLOUR DOPPLER SYSTEM

1. The equipment should be capable of operating in B Mode, M Mode, Color M Mode, Color Doppler, Color Power Doppler, PW modes, o ne - touch 2D image optimization,
    a. The system should have a n integrated trolley with height adjustable.
2. Triplex imaging should be standard on the system.
3. System should be offered with a 2D frame rate of 700 frame /sec or better.
4. No. of effective processing channels should be 5,00,000 or more.
5. The system must display at a maximum depth of 30 cm and shall process a dynamic range that is at least 150db.
6. System must be offered with t he following application: Cardiac, Vascular, S mall Parts, MSK, abdomen, Continuous wave Doppler imaging.
7. It must support transducers with linear, t ransesophageal echocardiography (TEE), Cardiac and curved array probes.
8. The system shall have a broadband architecture with an operating frequency of at least 1 -15 MHz
9. The system shall have the ability to enhance tissue margins and improve contrast resolution by reducing artifacts. Image processing technology to reduce clutter and speckle artifacts .
10. System must be offered with enhanced tissue harmonic imaging in standard configuration.
11. System must be offered with frequency compounding facility or equivalent technology.

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12. Equipment should offer auto measurement, 2D, Simpson tool to calculate LV (left ventricle) area and volume, 2D, area-length tool used to calculate LA (left atrium) area and volume, Stress echocardiography.
13. System should have zoom capability.
14. The system shall provide the user with minimum of 8 generic digital calipers.
15. The system must have dedicated calculation packages for all applications.
16. System should have Cardiac Quantification Advanced,3D Quantification, Cardiac 2D Quantification (a2DQ), Automated Cardiac Motion Quantification, Strain Quantification, Intima - Media Thickness (IMT) measurements, and Microvascular Imaging.
17. The system should offer Laptop style alphanumeric QWERTY keyboard.
18. The boot uptime of the machine should be less than 45 seconds.
19. The system should have an LCD screen size of 15" inches or better.
20. Equipment should have the facility of 3 lead ECG input.
21. System should have a multiport adapter that allows simultaneous connection of up to three transducers.
22. The system shall have the ability to function by AC power supply or battery power with the same degree of functionality, fully charged new battery yields approximate 45-minute battery life under continuous use without AC.
23. The system shall support the DICOM function with the ability for storage, print ,and work list, also ready to connect PACS.
24. The system shall have a Digital Video Interface (DVI), S-Video, VGA, USB , and audio output with provision for a 500 GB HDD.
25. Transducers to be supplied as standard ± 1 Mhz
26. 1-5 Mhz broadband single crystal transducer for adult cardiology application.
27. 3-8 MHz broadband transducer for pediatric cardiac imaging.

Conditions for tender:

1. All accessories should be from the same Original Equipment Manufacturer for the main unit.
2. Instruments must be ISO certified and a copy should be enclosed. (The ISO Certificate must be issued by any organization accredited by the Bureau of Indian Standard or accredited by the international accrediting forum "IAF" (Certificate to be attached).
3. Should be USA FDA and European CE be approved by 4 digits notified body.
4. Other necessary certifications if any required will be provided by the bidder for the smooth functioning of the machine.

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5. Installation process should be performed by O.E.M trained service engineers/ service representatives on OEM letterhead or Service Report within 15 days of supply, with the mandatory provision of providing preventive services visit of OEM trained Service Engineer/ Service Representative quarterly per year till the completion of warranty period (i.e., 20 visits for the first 05 years) & further quarterly visits (04 visits/year) year till the completion of CMC period.

6. The supplied equipment to be covered under a 5years comprehensive warranty and post-completion 5 years paid CAMC, in which all accidental damages/ breakage, leakage/ punctures, manufacturing defects and wear and tear of all sorts will be covered.
7. The equipment should have a Brand name/ Model Number embossed/etched on the equipment.

8. All the technical specifications in the compliance statement must be supported by Original Literature from the firm/ O.E.M with highlighting Numbering & flagging of all technical certificates.
9. Offered Equipment should have a strong Government Installation base.
10. Offered Equipment should have a Regional Sales Service Centre of the Original Equipment Manufacturer in the region for a 95 % uptime guarantee.

11. For the offered main unit, the essential, optional required consumables'/accessories' shelf life should be declared on the Original Equipment Manufacturer's letterhead.

12. In case of technical snag/failure/breakdown the response time for the inspection should be within 24 hours and repair within 05 days otherwise provide a service machine/ alternate arrangement to be made till the period of recovery of the breakdown of the unit, failing which attracts penal action as per the decision of institute/ hospital.
13. For offered equipment the Training of technical staff and users should be performed by Original Equipment Manufacturer trained Service Engineers at the proper designated place- at bidders' cost.
14. Company should quote their latest model and need to provide an affidavit for the same.
15. As a tendering process the Demonstration of the offered Equipment is Mandatory at hospital/institute premises or other designated places at the bidder's cost.
16. The bidder must comply with the General Financial Rules and their modifications if any issued by the Government of India- 2017.
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18. Principal (OEM) must authorize only one agent to be quoted in the bid otherwise multiple quotes through different agents in the same bid will be canceled.
19. The Bidder and its OEM both have to submit a notarized affidavit on the Indian Non-Judicial Stamp Paper of Rs.100/- that the bidder has not quoted the price higher than the current financial year and last financial year supplied to any government Institute/ Organization/ reputed Private Organization. OEM also has to submit that the price quoted by the bidder in the bid is on its behalf and the lowest in the current and last financial year in the country. Therefore, if at any stage it has been found that the supplier and its OEM have quoted lower rates than those quoted in this bid; the Institute (the purchaser) would be given the benefit of lower rates by the Supplier and any excess payment if any, will become immediately payable to the Institute (the purchaser). If such an affidavit is not submitted, the bid will be outrightly rejected. (Part of technical bid).
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SPECIFICATIONS FOR SYRINGE INFUSION PUMPS

Sl. No.

	Specifications
1	The flow rate range should be 0.1ml/hr to 1200 ml/h with an accuracy of ± 1% on the mechanism.
2	Should work on the following syringe capacities 5, 10, 20, 30/35, 50/ 60 CC and should be compatible with min 50 types of the syringe
3	Infusion modes to be present ml/hr mode, Dose mode, and Volume/time.

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4	Should have the following Dose rate mode units: ng/h, ng/kg/min, ng/kg/h, microg/min, microg/h, microg/kg/min, microg/kg/h, mg/min, mg/h, mg/24h, mg/kg/min, mg/kg/h, mg/kg/24h, mg/m²/h, mg/m²/24h, g/h, g/kg/min, g/kg/h, g/kg/24h, mmol/h, mmol/kg/h, mmol/kg/24h, mU/min, mU/kg/min, mU/kg/h, U/min, U/h, U/kg/min, U/kg/h, kcal/h, kcal/24h, kcal/kg/h, mEq/min, mEq/h, mEq/kg/min, mEq/kg/h.
5	Should have a drug library of a minimum of 50 drugs categorized in user-defined categories with the facility to set all infusion parameters like soft limit, hard limit, bolus dose, etc.
6	Should have Soft and Hard limit for max. or min. Flow/ Dosage rate that cannot be exceeded and is rejected by the pump.
7	Should have the facility to upload drug library simultaneously through a single interface in the station with up to 4 infusion pumps in a system with an external hardware
8	Should have direct bolus option with flow rate 50 ml/hr to 1200 ml/hr with an increment of 50 ml/hr along with programable bolus with settable dose or volume/time
9	Should have settable KVO option ranging from 0.1 to 5ml/hr with feature to keep it off
10	3 modes of Priming are required (Mandatory, not mandatory, or advised) with a max flow rate: of 1200 ml/hr.
11	Should have induction dose facility with setting of Dose / time: 0.1 - 99.9 units / 1 second - 24 hours rate auto-calculation
12	Night mode programmed manually or automatically in a variable time range is a must to decrease the brightness of the screen.
13	The fast start option is mandatory with a pause option programmable from 1min to 24hrs
14	Variable and 3 pre-set levels pressure mode is a must. Range from 50 to 900 mmHg. (25 mmHg increment from 50 to 250 mmHg / 50 mmHg increment from 250 to 900 mmHg). Can be enabled/disabled and adjusted with the facility to display real-time inline pressure in both digital and analog form.

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15	The Dynamic Pressure System with maximum and minimum threshold settings is mandatory.
16	The anti-bolus system is required
17	On Screen Graphical display of the following history "Volume/dose infused, pressure, flow rate" must be present.
18	Should save 1500 data log events in real-time and should have a graphical history of Volume/ dose infused, pressure and flow rate
19	The device should have Syringe barrel clasp check, plunger head detection, anti-siphon system check, and flange detection.
20	The device should have the following alarm Occlusion pressure pre-alarm, occlusion pressure alarm, patient line disconnection, end of infusion pre-alarm, end of infusion alarm, volume limit pre-alarm, volume limit alarm, keypad manual locking or key padlock, hard and soft flow rate limits, start infusion at pause end, Disengaged driving mechanism alarm, plunger disengaged alarm, low battery pre-alarm, discharged battery alarm, battery capacity display in hours and minutes, unconfirmed programming, technical malfunction alarm (auto-test, rotation), drive system advance check, watchdog check, communication connection failure, plug-head disengagement, auto-lock/lock code (on Keypad), preventive maintenance.
21	The device should have a push guard for syringe protection.
22	Should have LCD display of size equal to or more than 60 mm x 30 mm
23	Should have a Swing lock clamp for versatile clamp and horizontal clamp that allows the fixation on a rail or on a pole
24	Should have a Li-ion Smart battery, remaining battery life, and battery charge level available on the display. Battery Life (when fully charged): > 13 h at 5 mL/h.
25	The device should have an RS232 Communication port with HL7 compatibility.
26	Should have the option of self stackability of min 3 pumps
27	The device should have a Docking station to fit in 4 or 6 pump
28	The docking station should be able to communicate to HIS and should be HL7 compliant

Conditions for tenderers:

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3. Should be USA FDA and/ or European CE be approved by 4 digits notified body.
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SPECIFICATIONS FOR SURGICAL ELECTROCAUTERY / DIATHERMY MACHINE/ ESU

A. Electro Surgical Unit should be microprocessor controlled, US-FDA and European Certificate marked in accordance with the medical devices directive (93/42/EEC) 04 digit notified & Electro Surgical Unit should comply with the requirement of the medical device directive of class I equipment and electromagnetic compatibility.

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B. The system should have Monopolar Cut & Coagulation Modes with microcontroller-based technology & should adjust the power to get the desired surgical effect on the tissue. All settings should be controlled by the machine and according to the tissue delivery.
C. Should have Power and Voltage automatic regulation feature to prevent tissue damage and charring. The output voltage should be regulated at various levels .
D. The System should have LCD/ LED Backlight adjustment for good visibility in the operating room, patient plate monitoring facility, audiovisual alarm, and deactivate output if contact between the patient and the patient plate is not proper to eliminate the risk of patient burns.
E. Should have the optional facility of connecting reusable contact quality Monitoring Return Electrode Pediatric / Adult with 100% washable footswitches for terminal cleaning & disinfection – Monopolar & Bipolar
F. The Electro Surgical Unit should be supplied along with essential accessories from the same original equipment manufacturer, an affidavit for the same has to be submitted by the bidder, or else the bid will be rejected.
    1. Diathermy Pad / Patient plate –adult/pediatrics with patient plate cable if Reusable – 01 with a shelf life of minimum 50 applications and if disposable 50 pcs
    2. Monopolar two pedal footswitch 100% Washable / Water resistant (for terminal disinfection) with a minimum shelf life of 1000 applications or 24 months from date of supply -1no.
    3. Bipolar one pedal footswitch 100 % Washable / Water resistant (for terminal disinfection)- with minimum shelf-life of 1000 applications or 24 months from date of supply - 1no
    4. Monopolar electrosurgical pencil with different electrodes either Reusable 01 Unit with reusable 05 electrodes of various shapes with shelf life of minimum 50 applications or Disposable – 50 Units
    5. Non-sticky Bipolar forceps Straight & bayonet each with bipolar cord for forceps either Reusable 01 Unit with a shelf life of minimum 50 applications or Disposable – 50 Units.
    6. Reusable universal adaptor for attaching several Laparoscopic hand instruments with a shelf life of a minimum of 50 applications -1no.
    7. Cart with castors with unconditional replacement if break within 05 years from the date of installation.

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. **SPECIFICATIONS FOR PATIENT WARMER**

1. Specification a) Dimension: - 29-30 cm x 22-24 cm x 38 -40 cm b) Weight: 6-7 kg.
2. Operating Temperatures: - Ambient, 34 ℃, 37 ℃, 40 ℃, 46 ℃, +/- 2 C with delivery hose cover.
3. Fan Speed and Relative: - 38- 40 CFM (AIR FLOW) / < 50 dM (NOISE LEVEL)
4. Leakage Current: - Meets UL 60601 - 1 3rd edition and IEC 60601- 1 3rd Ed requirements.
5. Safety Systems: - Dual temperature limit thermostats/ heater temp. limit devices/ temperature limit devices / Control system failure alarm.
6. Filter: - Bacteriological HEPA filter/change after 1000 hours of use.

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7. Device Rating: - 1050-1100 watts Maximum.
8. Compatibility: - All types make blankets can be attached.
9. Including Adult blanket full body (10 Nos. of Blanket)
10. Power cord, All Manual soft copy in Pen drive, Connective cable for PC, and other machine accessories compatible with India sockets
11. Adjustable airflow, precise temperature delivery, and ease of use from a single, quiet warming unit
12. Safe, quick temperature response.
13. Two airflow settings and hose-end temperature sensing for precise temperature delivery
14. Three temperature sensors and adjustable airflow provide safe, quick temperature response and greater heat transfer
15. Compatible with all blanket styles - pediatric to adult
16. Tracks and reports therapy duration, over temperature information, calibration, hours used (via built-in meter), fault codes

Conditions for tenderer:

1. All accessories should be from the same Original Equipment Manufacturer for the main unit.
2. Instruments must be ISO certified and a copy should be enclosed. (The ISO Certificate must be issued by any organization accredited by the Bureau of Indian Standard or accredited by the international accrediting forum "IAF" (Certificate to be attached).
3. Should be USA FDA and/ or European CE be approved by 4 digits notified body.
4. Other necessary certifications if any required will be provided by the bidder for the smooth functioning of the machine.
5. Installation process should be performed by O.E.M trained service engineers/ service representatives on OEM letterhead or Service Report within 15 days of supply, with the mandatory provision of providing preventive services visit of OEM trained Service Engineer/ Service Representative quarterly per year till the completion of warranty period (i.e., 20 visits for the first 05 years) & further quarterly visits (04 visits/year) year till the completion of CMC period.
6. The equipment should have a Brand name/ Model Number embossed/etched on the equipment.
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8. Offered Equipment should have a strong Government Installation base.
9. Offered Equipment should have a Regional Sales Service Centre of the Original Equipment Manufacturer in the region for a 95 % uptime guarantee.
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17. Principal (OEM) must authorize only one agent to be quoted in the bid otherwise multiple quotes through different agents in the same bid will be canceled.
18. The Bidder and its OEM both have to submit a notarized affidavit on the Indian Non-Judicial Stamp Paper of Rs.100/- that the bidder has not quoted the price higher than the current financial year and last financial year supplied to any government Institute/ Organization/ reputed Private Organization. OEM also has to submit that the price quoted by the bidder in the bid is on its behalf and the lowest in the current and last financial year in the country. Therefore, if at any stage it has been found that the supplier and its OEM have quoted lower rates than those quoted in this bid; the Institute (the purchaser) would be given the benefit of lower rates by the Supplier and any excess payment if any, will become immediately payable to the Institute (the purchaser). If such an affidavit is not submitted, the bid will be outrightly rejected. (Part of technical bid).

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SINGLE CUFF ELECTRONIC/ PNEUMATIC TOURNIQUET
1. Single Cuff: Single port
2. Control: Micro Computerized cuff pressure control
3. Should use ambient air
4. Microprocessor Controlled
5. Inflation Air Source: Internal air compressor
6. Self-check calibration
7. Internal Pump for Fast Inflation Time
8. Positive locking connectors
9. Should alert the user of the cuff status when an attempt is made to deflate the machine
10. Cuff Lockout Safety Feature
11. Cuff Pressure: Adjustable 100 to 450 mmHg
12. Preset Resolution: 10 mmHg
13. Clock Elapsed time: 0.000 – 3.000 hours
14. Display: a. 3 digit- pre-selected pressure

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15. 3-digit Clock Elapsed time
16. Large Alphanumeric LCD Display
17. Alarms:
a. Cuff pressure is out of range for more than 30 sec. after the initial start
b. Cuff pressure is out of range for more than 11 sec. during operation
c. After an elapsed time of 30 min & every 30 min. thereafter
d. In Deflate mode – cuff pressure does not show 20 min Hg or less after 15 sec
e. 3 beeps – 9 min, prior to set time & at a set time
6. General control system failure
a. Cuffs should be autoclavable

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CEILING MOUNTABLE OPERATION THEATER LIGHT (DOUBLE DOME BASED ON LED TECHNOLOGY)

Technical Specifications for 1 set:

1. The latest LED Technology OT Light with the high-definition camera should be having US-FDA and/or CE (Conformity European directive 93/42/EEC) certification and compliant with International Electro-technical Commission IEC- 60601-2-41 (applicable only for OT Lights)

2. each light head should be made of aluminum alloy and should consist of several, symmetrically arranged light emitting diodes (LEDs) in modules to form a single light head for a shadow-free single white color light and having no heat emission through IR radiation.

3. Surgical light Ceiling Mounted Plate should be consisting of the following points -

4. Two horizontal rotatable extension spring arms, freely 360 deg. rotatable (without stops)

5. Should have two horizontal arms (approx.700mm to 1100mm in length) to hold two light heads, Main & Satellite Dome

6. Aerodynamic Circular/ Petaled design the dome of the light head should not obstruct the effect of laminar airflow systems.

7. Variable Light Intensity control should be on the dome for 50% to 100% intensity adjustments without a change of color temperature. An additional wall control unit should also be provided for light and camera controls.

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8. The switching off/on and light & camera and digital intensity & camera adjustments should be at light arm/dome and wall panel both.

9. Should have additionally Ambient (Endoscopy) Dim Light provision so that during MIS sufficient light is available.

10. Light intensity at 1m distance: should not be less than 150,000 Lux from the Main Light head and 100,000 Lux from the Satellite light head.

11. Size of light field spot size should be variable between 16-30 cm.

12. Color temperature, near today light at Noon and fixed between 4200K - 5000K.

13. Color rendering index: CRI should not be less than 92.

14. Each Dual Light set should be supplied with extra 4 nos. Sterilizable handles Suitable disposable covers for sterility usage of Light handles and Camera.

15. Service Life span of LED Light source: >50,000 hrs. Or more.

16. Supply voltage: 110 - 240 VAC / 24V DC 50Hz, single phase and Wattage each dome less than 1006

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20. Should provide 5-year CMC. CMC cannot be more than 5% of the contract value.
21. System configured application-specific educational video tutorials shall be provided as standard with the system.
22. Details of service outlet in India to render services during 5 years warranty period.
23. The principals must give a certificate if the supplier/vendor is changed during the course of the guarantee/warranty period, the principals would be responsible for the upkeep/maintenance of the quote/supplied equipment, besides honouring all the terms and conditions of CMC/AMC in letter and spirit.

GENERAL TERMS & CONDITIONS FOR SURGICAL INSTRUMENTS

1. All the Instruments should be made of high-grade stainless steel.
2. Quality steel should comply with international medical standards.
3. It should be for high quality and precision.
4. It should be lightweight, strong, and durable.
5. The tungsten carbide (TC) inlay should be nickel-based.
6. The TC inlay should be welded to the Instrument and not pasted.
7. All above aforesaid equipment should have US FDA and/or European CE certificate (with 4 digits notified body) and should be enclosed compulsorily.
8. Spares/Consumables should be available for a period of at least five years & more after the expiry of the guarantee/warranty period.
9. The principals must give a certificate if the supplier/vendor is changed during the course of the guarantee/warranty period, the principals would be responsible for the upkeep/maintenance of the quote/supplied equipment, besides honoring all the terms and conditions of CMC/AMC in letter and spirit.

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10. The firm must, attach a list of installations, and also provide performance certificates in the last 5 years from Central Govt./State Govt./reputed private hospitals.
11. System configured application-specific educational video tutorials shall be provided as standard with the system.
12. Should provide 5-year CMC. CMC cannot be more than 5% of the contract value & the instrument must be replaced during the warranty period.
13. Details of service outlet in India to render services during 5 years warranty period.

Technical Specification for Adult Fiberoptic bronchoscope

Specification for Adult Fiberoptic bronchoscope

1. It should have a 120° Field of View
2. It should have a Depth of Field of 3-50mm
3. It should have Tip Deflection Up/Down 180°/130°
4. Rigid Distal Diameter should not be more than 5.9mm
5. Insertion Tube Diameter should not be more than 6.0mm
6. Minimum Instrument channel should be 2.8 mm or more
7. It should have a minimum working length of 600mm or more
8. Suction Port should be on the control body
9. It should be compatible with High-Frequency Treatment Devices
10. It should have Autoclavable Suction Valve
11. It should be fully immersible in disinfectant solution
12. Should have the facility to check leakage by automatic pressure-regulated leak tester.
13. Should be compatible with a 150-watt halogen light source

Specs for Halogen Light Source

1. It should be provided with a suitable Portable halogen light source of 150W
2. Light Source should have a Vibratory Pump for use in UGI Scopes as well to deliver air/water to patients.
3. It should be able to give Pump Pressure of 41-62kPa
4. Lamp Life should be 50 Hrs on Continuous Use
5. Weight should not exceed 6 kg
6. It should be able to operate with 230V with 60Hz Frequency with power
7. consumption of 200VA
8. It should have a Class 1 Type of Protection against electric shock
9. It should have an interchangeable Auxiliary Socket

Specification for Camera

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1. should be a compact and well-balanced high-resolution video system.

2. Should be digital signal output DVI:1 that deliver more connect ability with almost all type of monitor, both digital and analog.

3. Weight should not be more than 5 Kg

4. When the camera head is disconnected, a color bar chart can be displayed.

5. Should have iris feature & Brightness control can be adjusted

6. Camera head should be immersible in disinfection solution.
7. Camera should be OEM Make.
8. Type of Protection against electric shock- Class I

Trolley

1. Trolley should have space to accommodate the video processor, monitor, and all the required equipment.
2. Provision of a Scope hanger in the trolley to hold the scope during the procedure
3. Trolley should have antistatic castor wheels having a front locking facility to move the trolley

Monitor-

1. 19’ Inch Color Monitor
2. DisplayPort, DVI-D, D-Sub mini 15 pin
3. Backlight Sensor
4. Power Requirements- AC 100 - 240 V: 50 / 60 Hz
5. Should have CE certification.

Endoscopy reporting software

1. Endoscopy software compatible with video processor unit capable of recording and archiving still and video images along with the capability to provide reporting in modifiable format.

Desktop

1. Should provide the latest generation (i5 with 500 GB SDD hard Disk) Computer system with laser colour printer.

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13. Company should quote their latest model and need to provide an affidavit for the same.
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15. The bidder must comply with the General Financial Rules and their modifications if any issued by the Government of India- 2017.

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23. The principals must give a certificate if the supplier/vendor is changed during the course of the guarantee/warranty period, the principals would be responsible for the upkeep/maintenance of the quote/supplied equipment, besides honouring all the terms and conditions of CMC/AMC in letter and spirit.
24. The supplied equipment is to be covered under a 5years comprehensive warranty and post-completion 5 years paid CAMC, in which all accidental damages/ breakage, leakage/ punctures, manufacturing defects and wear and tear of all sorts will be covered. However, consumables

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(valves/buttons/batteries, filters etc.), procedural endo therapy accessories are not covered under any kind of warranty or contract.

TECHNICAL SPECIFICATION FOR LED DOUBLE FILM X-RAY VIEW BOX

1. Ultra-thin X-ray film illuminator using light

2. It should have a thickness of 29 mm

3. It should be suitable for viewing 14''x17' film

4. The LED light must have a life span of more than 1,00,000 hours.

5. It should have easy insertion & removal of the film

6. It should have homogeneous illumination of more than 95% and maximum intensity of over 10,000 LUX.

7. It should have an on-off switch along with a digital feather touch dimmer and a button to set the intensity

8. It should have fully electronic continuous brightness control, with an adjustment range of approximately 90%.

9. It should have directly connectable to the power supply without any external adapter.

10. It should have flicker-free high-frequency light for the reduction of eye strain.

11. It should have external fuses for protection against a power surge.

12. 10-step Digital dimmer facility with step up/step down the intensity of 400 LUX.

13. Automatic film sensor

14. Facility to switch on only the section where the film needs to be viewed.

15. Once intensity is set, should not go back to the factory setting.

Conditions for tenderer:

1. All accessories should be from the same Original Equipment Manufacturer for the main unit.
2. Instruments must be ISO certified and a copy should be enclosed. (The ISO Certificate must be issued by any organization accredited by the Bureau of Indian Standard or accredited by the international accrediting forum "IAF" (Certificate to be attached).

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3. Should be USA FDA and/ or European CE be approved by 4 digits notified body.
4. Other necessary certifications if any required will be provided by the bidder for the smooth functioning of the machine.
5. Installation process should be performed by O.E.M trained service engineers/ service representatives on OEM letterhead or Service Report within 15 days of supply, with the mandatory provision of providing preventive services visit of OEM trained Service Engineer/ Service Representative quarterly per year till the completion of warranty period (i.e., 20 visits for the first 05 years) & further quarterly visits (04 visits/year) year till the completion of CMC period.
6. The equipment should have a Brand name/ Model Number embossed/etched on the equipment.
7. All the technical specifications in the compliance statement must be supported by Original Literature from the firm/ O.E.M with highlighting Numbering & flagging of all technical certificates.
8. Offered Equipment should have a strong Government Installation base.
9. Offered Equipment should have a Regional Sales Service Centre of the Original Equipment Manufacturer in the region for a 95 % uptime guarantee.
10. For the offered main unit, the essential, optional required consumables'/accessories' shelf life should be declared on the Original Equipment Manufacturer's letterhead.
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However, the Institute (the purchaser) may decide not to enter into any CMC/AMC contract without assigning any reason for the same, which shall be binding upon the bid.

SPECIFICATIONS FOR SHORTWAVE DIATHERMY UNIT

1. Microprocessor-based Continuous and Pulsed Shortwave Diathermy Unit for superficial and deep tissue treatment.
2. Operating Frequency: 27.12 MHz
3. Operation modes: Capacitive, Resistive and Inductive
4. Emission modes: Continuous and pulsed
5. Continuous Output: 450 W to 470 W
6. Pulsed Output: 1050 W to 1100 W
7. Automatic Tuning
8. Frequency: 20 to 200 Hz
9. Impulse length: 400 to 450 micro-seconds
10. Display: LCD
11. The unit should offer a minimum of 20 pre-set therapeutic protocols for common conditions.
12. The unit should be supplied complete with disc electrodes (2 Nos), rubber electrodes (4 Nos), felt spacers (4 Nos), high-frequency cables (4 Nos), and electrode arms (2 Nos).
13. System should work on 220V-230V/50Hz.
14. Should be supplied with Servo Voltage Stabilizer of required rating
15. Wooden couch with mattress.

Conditions for tenderer:

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2. Instruments must be ISO certified and a copy should be enclosed. (The ISO Certificate must be issued by any organization accredited by the Bureau of Indian Standard or accredited by the international accrediting forum "IAF" (Certificate to be attached).
3. Should be USA FDA and/ or European CE be approved by 4 digits notified body.
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SPECIFICATION FOR DRILL MACHINE

Handpiece

Speed around 60,000 rpm

Rotary direction switch on the handpiece

Safety off switch and cable position on the handpiece

Snap Lock for attachments with automatic locking

Machine washable

The weight of the handpiece should be around 185 gm

Power Should be around 80 Watts

Seal nipple made of metal should accommodate both ends of electric cable for cleaning

Electric Cable for Handpiece: should be preferably 4 m long

Hand Switch:

Removable

Continuously variable speed

Telescopic extension for better control of long attachments Lock slide for extra safety

Foot Switch (1 pedal):

Large pedal surface

Button for irrigation

Connection for additional foot switch

Bar for moving the foot switch

Continuously variable speed

Electric Cable for Foot Switch:

should be around 4 m

Option of Basic Console or Standard Console, with Irrigation:

Easy handling

Speed control at 4 levels

Integrated irrigation system with the setting of speed-dependent or constant

irrigation in standard Console

Irrigation pump with flow rate setting in standard Console

Connections for 2 drive units, I foot switch in standard console

Maintenance Kit:

Should have separate Adapters for Handpiece & Attachments

Should have high-pressure Maintenance Spray for internal cleaning of

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Hand piece & Attachments

Should have Synthetic bio-compatible oil for lubrication of moving parts

Drill Attachment with Mini Quick Coupling:

Speed around 1800 rpm approx

Drill Bits up to 1 mm to 6.0 mm in diameter

Drill Attachment with J-Latch coupling:

Speed around 1800 rpm approx

Drill Bits up to dia 6.0 mm

Oscillating Drill Attachment 45°, with Mini Quick Coupling:

Soft Tissue protection

Frequency: around 3200 OSC/min

Screw Attachment with Mini Quick Coupling:

Speed 400 rpm approx

Safe screw insertion with machine

Kirschner Wire Attachment:

Speed around 2700 rpm approx

Attachment for dia 0.6 1.6 mm Kirschner wires

Tensioning Lever can be rotated by 300°

Self-gripping

Drill Attachment 45°, cannulated, with Jacobs Chuck:

Speed 1800 rpm approx

Round drill bits can be used

Cannulation which is important e.g., inserting cannulated screws

Oscillating Saw Attachment:

Frequency: 22000 OSC/min approx

Amplitude: 15°

Sagittal Saw Attachment:

Frequency: 22000 OSC/min approx

Amplitude: 5.8”

Saw Blades can be inserted in 5 positions

Sagittal Saw Blade, Usable Length 18.0 mm to 31.0 mm, Blade width 2.5 mm to 6.0 mm, Cutting Thickness 0.38 mm

Reciprocating Saw Attachment:

Frequency: 18000 OSC/min approx

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Stroke: 2.5 mm

Craniotome Attachment and Dura Guards for Neurosurgery:

Gear ratio 1:1

Good turning capabilities

3 sizes of Dura Guards and corresponding Cranial Burrs

Option of Perforator with Hudson coupling or standard Perforator:

Gear reduction 97:1

For the safe opening of the cranial vault

Burrs – Should have sizes in the following ranges. Minor variations in the sizes and shapes are acceptable:

Burr, Round, dia 1.0 mm to 8.0 mm

Burr, Round, Diamond coated, dia 1.0 mm to 6.0 mm

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SPECIFICATIONS FOR LAMINAR FLOW

1. **Laminar Air Flow (Vertical airflow)** , EN12469 OR equivalent Normal size (Approximately 4 Feet length X 2 feet depth) epoxy/powder coated exterior Door fully closing with hinged sash. Support stand, solid one-piece dished work surfaces

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with Stainless steel internal usable working area of at least 0.69m ^{2} (7.43sq ft) with curved corners and of a single sheet.

2. One piece formed stainless steel work surface with a curved front edge.
3. Inner both side wall and back wall of one piece Stainless steel with vertical laminar airflow.
4. With a Downflow velocity of 40-70 fpm, ISO Class 3/5
5. HEPA filter
6. Should include 210-240V/50-60 Hz
7. With a display of parameters of airflow velocity, air exhaust value, pressure sensor
8. With Ultraviolet light and White light fitted inside the cabinet.
9. For Safety UV light should be closed, when the viewing window is open and when the White light is on.
10. With at least one electric power supply point of 15A load capacity inside the cabinet
11. UV protective Glass Viewing Window and side panels
12. Working height of Front Window 8 inches, Maximum lifting height of front window approximately 20 inches.
13. Motor must automatically adjust the airflow speed without the use of a damper to ensure continuous safe working conditions
14. Cabinet noise level must be less than 64 Db; Antimicrobial painting
15. Suitable constant power supply (5KVA online UPS) restart after a power failure with a battery and UPS stand with wheels.
16. One 3 ft UV lamp; Two Direct Mounted Electrical Outlet (Indian Standard); One Service Fixture with 40mm Thread Length for LPG Gas burner (copper piping must be factory installed)
17. One Support Stand with castor wheels; One Ergonomic Foot Rest; One Ergonomic Lab Chair
18. Offer should include IQ, OQ, PQ Test with DOP Test, Particle Count Test, Velocity Test and Smoke Pattern Test, and third-party validation.

Conditions for tenderer:

1. All accessories should be from the same Original Equipment Manufacturer for the main unit.
2. Instruments must be ISO certified and a copy should be enclosed. (The ISO Certificate must be issued by any organization accredited by the Bureau of Indian Standard or accredited by the international accrediting forum "IAF" (Certificate to be attached).
3. Should be USA FDA and/ or European CE be approved by 4 digits notified body.
4. Other necessary certifications, if any, will be provided by the bidder for the smooth functioning of the machine.
5. Installation process should be performed by O.E.M trained service engineers/ service representatives on OEM letterhead or Service Report within 15 days of supply, with

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the mandatory provision of providing preventive services visit of OEM trained Service Engineer/ Service Representative quarterly per year till the completion of warranty period (i.e., 20 visits for the first 05 years) & further quarterly visits (04 visits/year) year till the completion of CMC period.

6. The equipment should have a Brand name/ Model Number embossed/etched on the equipment.
7. All the technical specifications in the compliance statement must be supported by Original Literature from the firm/ O.E.M with highlighting Numbering & flagging of all technical certificates.
8. Offered Equipment should have a strong Government Installation base.
9. Offered Equipment should have a Regional Sales Service Centre of the Original Equipment Manufacturer in the region for a 95 % uptime guarantee.
10. For the offered main unit, the essential, optional required consumables'/accessories' shelf life should be declared on the Original Equipment Manufacturer's letterhead.
11. In case of technical snag/failure/breakdown the response time for the inspection should be within 24 hours and repair within 05 days otherwise provide a service machine/ alternate arrangement to be made till the period of recovery of the breakdown of the unit, failing which attracts penal action as per the decision of institute/ hospital.
12. For offered equipment the Training of technical staff and users should be performed by Original Equipment Manufacturer trained Service Engineers at the proper designated place- at bidders' cost.
13. Company should quote their latest model and need to provide an affidavit for the same.
14. As a tendering process the Demonstration of the offered Equipment is Mandatory at hospital/institute premises or other designated places at the bidder's cost.
15. The bidder must comply with the General Financial Rules and their modifications if any issued by the Government of India- 2017.
16. Any bidder from a country that shares a land border with India will be eligible to bid in the tender only if the bidder is registered with the Competent Authority (i.e., Registration certificate issued by the Ministry of Commerce and Industry (Department for Promotion of Industry and Internal Trade- DPIIT after October 2020). If any such bidder is not registered with DPIIT they will be liable for technical disqualification.

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17. Principal (OEM) must authorize only one agent to be quoted in the bid otherwise multiple quotes through different agents in the same bid will be canceled.
18. The Bidder and its OEM both have to submit a notarized affidavit on the Indian Non-Judicial Stamp Paper of Rs.100/- that the bidder has not quoted the price higher than the current financial year and last financial year supplied to any government Institute/ Organization/ reputed Private Organization. OEM also has to submit that the price quoted by the bidder in the bid is on its behalf and the lowest in the current and last financial year in the country. Therefore, if at any stage it has been found that the supplier and its OEM have quoted lower rates than those quoted in this bid; the Institute (the purchaser) would be given the benefit of lower rates by the Supplier and any excess payment if any, will become immediately payable to the Institute (the purchaser). If such an affidavit is not submitted, the bid will be outrightly rejected. (Part of technical bid).
19. Guarantee / Warranty Period: Separate offers of Comprehensive Maintenance Contract (CMC on main equipment) and Annual Maintenance Contract (AMC on main equipment) for further 5 years after expiry of 5 years of warranty (i.e., 6 th , 7 th , 8 th , 9 th and 10 th years) in rupees only (and on basis of percentage of price) should be included in a financial bid in the absence of which the offer is liable to be rejected. Payment for CMC/AMC shall be made only after the expiry of the warranty of 5 years, in case the Institute (the purchaser) decides for availing of CMC/AMC services. Contract for CMC/AMC shall be decided on expiry of warranty but rates (not more than 5% inclusive of all taxes for 6 th to 10 th year) will be frozen at the price of an issued purchase order before the release of payment by the Institute (the purchaser). However, the Institute (the purchaser) may decide not to enter into any CMC/AMC contract without assigning any reason for the same, which shall be binding upon the bid.
20. Should provide 5-year CMC. CMC cannot be more than 5% of the contract value.
21. System configured application-specific educational video tutorials shall be provided as standard with the system.
22. Details of service outlet in India to render services during 5 years warranty period.
23. The principals must give a certificate if the supplier/vendor is changed during the course of the guarantee/warranty period, the principals would be responsible for the upkeep/maintenance of the quote/supplied equipment, besides honouring all the terms and conditions of CMC/AMC in letter and spirit.

SPECIFICATIONS FOR DIALYSIS MACHINE FOR BURN UNIT

General Requirements		
	Microprocessor Based Control	Should be microprocessor controlled & capable of providing therapies such as Conventional HD, Online HDF, HF & features such as Online priming, Acetate &Bicarb dialysis, Volumetric UF, Sodium/ UF profiling, Online help options (in case of alarm cont.), BPM, OCM

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	Graphical User Interface (Display)	High-resolution TFT touch screen with functional keys & provide a cumulative graphical display of treatment data & physiological trends including sodium & UF profiles. Freely rotatable & adjustable design. Should display different menus (preferably 9) indicating blood system, preparation, dialysate, UF, Treatment, Reinfusion, Cleaning, System parameters, & screen saver option. Should have integrated Patient card reader system where at least 03 treatment data can be recorded.
	Safety Features	Should be a closed system design with a volumetric balancing system, i.e., volume in volume out for fresh & used dialysate. Volumetric dilution of concentrates with RO water & Volumetric UF. Self-Test after switching ON, Startup T1 test before each treatment, to ensure the functioning of all hardware components. Leak sensor & Connection test as additional safety.
Performance Requirements		
Blood Circuit	Vascular Access	Single Needle click clack should be available Blood pump with features such as flow range of 30-600ml/min, with 10ml increments & accuracy upto±10% Effective blood rate should be displayed by the setting & tubing size with a diameter of 2mm – 10mm could be used. An emergency hand crank should be provided to enable reinfusion in case of power failure. Emergency button enabled bolus, UF control, and BPM control.

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		Air-free pressure measurement on arterial line, reducing the chance of blood clot. Protective cover for whole EBM (Extracorporeal Blood ckt.)
	Heparin Pump	Should be automatic or manual start/stop, with infusion rate of 0.5-10ml/hr in 0.1ml/hr increments &±5% accuracy. Heparinization stop time should be user-adjustable in 1min increments, & positive/negative extracorporeal blood ckt pressure should not affect infusion rate. Auto Bolus administration should be programmable from 1-20ml/hr.
	Pressure Monitoring & Alarms	Venous pressure monitoring & adjustment in case of an alarm condition. (Range: -100 to +500mmHg, Accuracy: ±7%) Arterial pressure monitoring & adjustment in case of an alarm condition. (Range: -300 to +300mmHg, Accuracy: ±7%)
	Air Detection	Ultrasonic design & should be activated for air & microbubbles over the entire blood flow range. The sensitivity of the detection mechanism should be specified in terms of air bubble size & on detection of excessive air, the venous clamp should activate & blood pump stop. The reference point for level detector measurement should be about 13 ± 4mm, from the upper edge of the venous chamber.
Dialysis Circuit	Treatments/Therapies	Should facilitate Acetate & Bicarbonate dialysis. Variable sodium & bicarbonate options. Volumetric UF & Sodium/UF profile options.
	Dialysate flow rates	A Range of 100-1000ml/min should be available, with a resolution of 100ml/min, with Accuracy- ± 10%, & provide good clinical outcomes on EDDF therapy for

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		acute patient Autoflow function should be available with an ON/OFF feature, in view to save electricity & water consumption & synchronize with blood flow changes. The ecoflow function should be available when the preparation phase is finished to save dialysate, water, electricity Pre-programmed more than 10 types of concentrates should be available & its change should not be necessary for calibration
	Temperature Control & Alarm	Control Range: 34.0 to 39.0 deg Celsius with 0.5 increment Alarm Limits: 33.5 to 40.0 deg Celsius
	Conductivity Control & Alarm	Range: 12.8 to 15.7 mS/cm Accuracy: ± 0.1 mS/cm Dialysate conductivity should be adjustable by sodium concentration, Acetate Dialysis-with range from 125 to 151mmol/l in increments of 1mmol/l. For Bicarbonate dialysis, range from 125 to 151mmol/l in increments of ±8mmol/l.
	Blood leak detection	Photodetector used, & alarm should be activated for blood loss rates <0.5ml/min, with HCT of 20-25%.
	Volumetric UF	Control Range: 0-4L/hr, given by set values of UF volume & treatment time, with accuracy ±1% UF volume: 0-9.99L adjustable in 1ml increment Treatment time: adjustable up to 9 hr 59 min. in 1 min increment TMP monitoring: - 10 0 to + 400 mmHg. An isolated ultrafiltration process should be provided.
		Equipment should be capable of online preparation of bicarbonate dialysis fluid & It should be handled by one hand only
	Ultra-pure Dialysate	Should have a hygienic connection for ultra-pure

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	filter	dialysate filter Should have endotoxin retention capacity not less than 10^{6} IU. The machine should have an automatic program to change the filter, including emptying & filling cycles. The filter should have a life span of not less than 12 weeks or 100 treatments The filter should be arranged in a cross-flow setting & equipment should perform flushing during treatment automatically every 1hr. Filter change reminders should be available.
Online Fluid Circuit	For HDF	Both options of Pre-dilution & post-dilution of blood should be available Automatic control substitution program with pre/post dilution identity integrate function, dialyser integrates function, Effective blood flow rate integrates, HCT integrates function, Total protein integrate & UF rate integrate functions. Equipment should have 2 ultra-pure filters to prepare the online substitution fluid Should be capable of online preparation of substitution fluid for priming & rinsing of extracorporeal ckt for HD/HDF/HF/ or as injection-bolus & reinfusion at the end of treatment. Substitution fluid delivery rate: 25 to 600ml/min in 1ml/min increment, with accuracy ± 0.1ms/cm & exchange volume -210L (max.)
Dialysis Parameter Display	Equipment should display the parameters -	Arterial Pressure, Venous Pressure, Blood flow rate, Dialysate Conductivity, TMP, UF volume, UF rate, Remaining treatment time, Heparin infusion rate, Alarm info, etc.
Online Clearance	Equipment should have	Inbuilt measurement & monitoring of effective Urea clearance K, Dialysis dose Kt/v, & Plasma sodium

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Monitor (OCM)		during dialysis This measurement should be done without any additional cost & disposable during each treatment Measuring accuracy: Clearance +/- 6 % Kt/V +/-9% OCM conductivity evaluation should be 12 bit with 2 channels & 2 CD cells (1 cell for basic machine function)&Measuring range: 12.8 – 15.7 mS/cm, Accuracy: 0.05 mS/cm OCM temperature evaluation should be12 bit with 2 channels & 2 NTC (1 NTC for basic machine function)&Measuring range: 33.5 – 41 °C, Accuracy: 0.2 °C
Blood Pressure Monitor (BPM)	Equipment should have	Should be Built with a non-invasive device for measuring the patient blood pressure automatically The measuring Range should be Cuff pressure range: 10-325 mmHg or a wider choice Systolic range: 3 0-2 8 0 mmHg or a wider choice MAP range: 20 -2 5 5 mmHg or a wider choice Diastolic range: 1 0-2 4 0 mmHg or a wider choice Pulse rate range: 2 0- 2451/min or a wider choice Alarm val u es should be Systolic range: 90 & 165 mmHg MAP range: 70 & 120 mmHg Diastolic range: 5 0 & 100 mmHg Pulse range: 40 & 1 5 0 1/min
Battery Backup		The equipment should be able to operate and monitor the extracorporeal circuit without interruption for 20-30 min. in case of AC power failure by a backup battery
Disinfection and Cleaning		Both chemical and heat disinfections should be performed Sodium hypochlorite should be used as a cleansing disinfectant

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		Various Programmable Cleansing Cycles should be provided with different phases and timings by different disinfectants. Should be One-touch fully automatic operation including pre-rinse, chemical intake for combined disinfection & decalcification, post-chemical mandatory rinse, and automatic power-off; without the need for any end-user handling during this whole disinfection process.

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10. For the offered main unit, the essential, optional required consumables'/accessories' shelf life should be declared on the Original Equipment Manufacturer's letterhead.

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19. Guarantee / Warranty Period: Separate offers of Comprehensive Maintenance Contract (CMC on main equipment) and Annual Maintenance Contract (AMC on main equipment) for a further 5 years after the expiry of 5 years of warranty (i.e., 6 th , 7 th , 8 th , 9 th and 10 th years) in rupees only (and on basis of percentage of price) should be included in a financial bid in the absence of which the offer is liable to be

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20. Should provide 5-year CMC. CMC cannot be more than 5% of the contract value.
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